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List of the Chinese lighthouses.

4/4/84

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CHINA.

IMPERIAL MARITIME CUSTOMS.

III.—MISCELLANEOUS SERIES: No. 6.

LIST OF THE CHINESE LIGHTHOUSES, LIGHT-VESSELS, BUOYS, AND BEACONS

FOR

1884.

(Corrected to 1st December 1883.)



TWELFTH ISSUE.

PUBLISHED BY ORDER OF
The Inspector General of Customs.

SHANGHAI:
STATISTICAL DEPARTMENT
OF THE
INSPECTORATE GENERAL.

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ABBREVIATIONS AND EXPLANATIONS.

LIGHTS.

- F. Fixed; only a fixed or steady light being visible.
 - F. & Fl. Fixed and Flashing; a fixed light being always visible, which is intensified by flashes at the intervals stated.
 - Rev. Revolving; the light gradually increases to full effect and then gradually decreases to total eclipse at the intervals given, which are from centre to centre of the maximum brilliancy.
 - Occ. Occulting; when, for the periods stated, a fixed or steady light is shown, followed by a more or less sudden eclipse.
-

ILLUMINATING APPARATUS.

- C. Catoptric, or by metallic reflectors.
 - D. Dioptric, or by lenses and prisms.
 - Ord. Order, or class of apparatus, numbered from the first (or most powerful) to the sixth order.
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The bearings are magnetic, and are given from seaward.

The given distances, from which the lights should be visible in clear weather, are calculated for an observer at a height of 15 feet above the sea; the elevation of the lights being in all cases taken as above high water.

In several cases, however, when the light is not powerful enough to carry to the distance calculated from its height, a reduced range has been given.

The coloured lights are specially noted in *italics* in the column for remarks, all others being white.

The lights are exhibited from sunset to sunrise.

Longitude is given in degrees, minutes, and seconds east of Greenwich. The miles given are nautical miles, or minutes of latitude. The positions given are only approximate ones.

The light-vessels and lighthouses are provided with both Codes of Signals, but it is advisable to use the Commercial Code.

Banks of rivers are spoken of geographically, *i.e.*, as *right* or *left* to a person facing *down* the stream.

* * Should Pilots or Commanding Officers of vessels detect or suspect that any movable mark has changed from its latest advertised position, they are requested to report such change without delay to the Harbour Master of the district concerned.

DESCRIPTION OF THE LIMITS OF CUSTOMS DISTRICTS.

The Pakhoi Customs District includes the coast line of China from the Tungking frontier to Waichow (Guiechow) Island.

The Kiungchow (Hoihow) Customs District includes the Hainan coast, and from Waichow (Guiechow) Island to Hai-ling-shan.

The Canton Customs District extends (for matters affecting the Marine Department) from Hai-ling-shan, $111^{\circ} 45'$ E. longitude, to 114° E. longitude.

The Swatow Customs District includes that part of the coast which is situated between Mirs Point and the Lamocks.

The Amoy Customs District extends from the Lamocks north to Chinchew, inclusive.

The Taiwan Customs District comprises the south and southern half of the west coast of Formosa.

The Tamsui Customs District comprises the north and northern half of the west coast of Formosa.

The Foochow Customs District extends from Chinchew north to Namkwan.

The Wenchow Customs District includes the coast from Namkwan to T'aichow.

The Ningpo Customs District extends from T'aichow north to Hangchow Bay.

The Shanghai Customs District extends from Hangchow Bay along the coast as far as the old mouth of the Yellow River, latitude 34° N., and up the Yangtze to the Langshan Crossing.

The Chinkiang Customs District comprises the Yangtze from the Langshan Crossing to Nanking.

The Wuhu Customs District includes the river from Nanking to Nganking.

The Kiukiang Customs District comprises the river from Nganking to the gorge west of Kiukiang.

The Hankow Customs District extends from the gorge west of Kiukiang to Yochow, at the mouth of the Tungt'ing Lake.

The Ichang Customs District extends from the Tungt'ing Lake to the gorge above Ichang.

The Chefoo Customs District includes the coast line from the old mouth of the Yellow River to the Ta-tsin-ho.

The Tientsin Customs District extends from the Ta-tsin-ho to the Shan-hai-kwan.

The Newchwang Customs District extends from the Shan-hai-kwan to Newchwang, and from Newchwang south to Ta-lien-wan.

* * The Limits of the Customs Districts are shown approximately on the Map at the beginning of this volume by red lines cutting the Coast or the Yangtze River.

SYSTEM OF COLOURING BUOYS AND BEACONS IN CHINESE WATERS.

BUOYS.

No.	COLOUR OF BUOY.	DIRECTIONS AND EXPLANATIONS.
1	Red	Entering the channel from seaward, <i>red</i> buoys will be found on the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in.
2	Black	Entering the channel from seaward, <i>black</i> buoys will be found on the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.
3	Red and black horizontal bands.	Buoys painted in <i>red</i> and <i>black horizontal bands</i> will be found in the fairway, and should be passed close-to.
4	Red and black vertical stripes.	Buoys painted in <i>red</i> and <i>black vertical stripes</i> will be found on the ends of spits, and the outer and inner extremes of banks, shoals, or extensive reefs, where there is a navigable channel on either side of such spit, bank, shoal, or reef. Vessels should never attempt to pass between a buoy thus painted and the danger which it marks.
5	Red and black chequers	Buoys painted in <i>red</i> and <i>black chequers</i> will be used to mark rocks in the open sea, also to mark obstructions of small extent having channels on either side of them. When used for the latter purpose they will be placed to seaward of the danger. Vessels should never attempt to pass between a buoy thus painted and the danger which it marks.
6	Red and white chequers	When <i>two chequered buoys</i> of these colours are used to mark an obstruction, the <i>red</i> and <i>white</i> one is to mark the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in; and the <i>black</i> and <i>white</i> one is to mark the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.
7	Black and white chequers	
8	Wreck buoys	Wrecks will in all cases be marked by <i>green</i> buoys, having the word <i>WRECK</i> painted on them in <i>white</i> letters, and when a wreck lies in the open sea or in a position where there is a navigable channel with plenty of room on either side of it, the buoy will carry no other distinguishing mark, and will in every such case be placed to seaward of the wreck. Wreck buoys marked with an <i>even</i> number must be left on the <i>starboard</i> hand by vessels entering from the sea. Wreck buoys marked with an <i>odd</i> number must be left on the <i>port</i> hand by vessels entering from the sea. The numbers on wreck buoys will be painted in <i>white</i> , and placed above the word <i>WRECK</i> .

Note.—All other distinguishing marks to buoys will be in addition to the foregoing, and where such are employed, a particular description of the same will in each case be given in the published List. Each buoy will have an iron plate fastened on its outside, in some convenient place above the water-line, with the name of its district and station as given in the published List stamped thereon in English and Chinese, to insure its identification if found adrift.

BEACONS.

No.	COLOUR OF BEACON.	DIRECTIONS AND EXPLANATIONS.
1	Red	Entering the channel from seaward, <i>red</i> beacons will be found on the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in.
2	Black	Entering the channel from seaward, <i>black</i> beacons will be found on the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.
3	Red and black vertical stripes.	Beacons painted in <i>red</i> and <i>black vertical stripes</i> will be used to mark spits and the outer and inner extremities of banks, shoals, or extensive reefs, where there is a navigable channel on either side of such spit, bank, shoal, or reef.
4	Red and black chequers	Beacons painted in <i>red</i> and <i>black chequers</i> will be used to mark rocks in the open sea, also to mark rocks of small extent having channels on either side of them.
5	Red and white chequers	When two <i>chequered beacons</i> of these colours are used to mark a rock or reef, the <i>red</i> and <i>white</i> one is to mark the <i>starboard</i> side of the channel, and must be left on the <i>starboard</i> hand by vessels passing in; and the <i>black</i> and <i>white</i> one is to mark the <i>port</i> side of the channel, and must be left on the <i>port</i> hand by vessels passing in.
6	Black and white chequers	
<p><i>Note.</i>—It is to be understood that the above rules for painting beacons apply in each case to the body of the structure. When a beacon which is painted a single colour, either black or red, is surmounted by a distinguishing mark, such mark may be painted the same colour as the body of the beacon or with that colour and white combined, or white alone.</p>		
		When the body of a beacon is painted in two colours, the same colours only may be used to paint the mark by which it is surmounted. Whenever a distinguishing mark is used, a particular description of it will be given in the published List.
	Various	Beacons on shore, to enable bearings to be taken or to give lines of direction for crossing bars or entering rivers, harbours, etc., will be painted so as to make them as conspicuous as possible. Red, black, and white will be the only colours used, and a particular description of such marks will be given in the published List.

LIGHTS.

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wear- ther.
1, 2	Canton	Dutch Folly North Beacons.	On rocks near Dutch Folly Island, north side of the channel.			F.	.....	2
3	do.	Dutch Folly South Beacon.	On rocks near Dutch Folly Island, south side of the channel.			F.	.....	1
4, 5	do.	Taishek Barrier Beacons.	On the north side of the Barrier Channel, Blenheim Passage.			F.	.....	1
6	do.	Taiwei Beacon	On the south-east side of the sandspit off 49th Point, Marines Island, Blenheim Passage.			F.	.....	1
7	Swatow.....	Breaker Point	On the point	22° 56' 30"	116° 28' 10"	Occ.	8 seconds light and 2 seconds eclipse.	19
8	do.	Cape of Good Hope...	On the cape.....	23° 14' 35"	116° 48' 31"	F. & Occ.	.....	15 white, 8 red.
9	do.	Sugar Loaf	On the eastern end of the summit of island.	23° 19' 54"	116° 45' 32"	F. & Fl.	½ minute	8
10	do.	Lamocks	Summit of High Island	23° 14' 50"	117° 17' 33"	F.	.....	22
11	do.	do.	Southern slope of High Island			F.	.....	7
12	Amoy.....	Chapel Island	Summit of island	24° 10' 18"	118° 13' 30"	F. & Fl.	½ minute	22
13	do.	Tsingseu Island.....	On the northern slope of the island	24° 22' 8"	118° 7' 11"	F.	.....	15 white, 8 red.
14	do.	Taitan Island.....	On the island, near the northern entrance to Amoy Harbour.	24° 23' 30"	118° 9' 48"	F.	.....	10

LIGHTS.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round granite beacons, painted red, and sur- mounted by a lantern.	15	26	1859	Unclassed ...	Two <i>red</i> lights on the northern side of the channel. The same as Beacons Nos. 1, 2.	1, 2
Round, stone and brick beacon, painted black, and surmounted by a lantern.	10	22	1859	do. ...	A <i>green</i> light on the southern side of the channel. The same as Beacon No. 3.	3
Spar beacons, painted red, white, and red, and surmounted by a circular frame.	24	46	1872	do. ...	Two <i>red</i> lights to mark the deepest water over the barrier. The same as Beacons Nos. 4-6.	4, 5
Spar beacon, painted black, white, and black, and surmounted by a square frame.	21	42	1872	do. ...	A <i>white</i> light to mark the south-east edge of sandspit. The same as Beacon No. 7.	6
Round, black and white horizontal bands.	15 $\frac{1}{2}$	120	1880	D. 1st Order	<i>White</i> from S. 55° W. round by W. to N. 53° E., and <i>red</i> inshore of both these bearings as far as the land. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 10 seconds between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	7
Round, white	171	22	1880	D. 4th Order	<i>Fixed red</i> from S. 32° E. to S. 10° E.; <i>fixed white</i> , eclipsed for about 3 seconds every minute, from S. 10° E. round by S. and W. to N. $8\frac{1}{2}^{\circ}$ E.; and <i>fixed red</i> , eclipsed for about 3 seconds every minute, from N. $8\frac{1}{2}^{\circ}$ E. till it is shut in by Ma-urh Point. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	8
Round, red	200	21 $\frac{1}{2}$	1880	D. 6th Order	<i>Fixed white</i> varied by <i>red</i> flashes at $\frac{1}{2}$ -minute intervals; visible all round.	9
Round, black.....	241	54	1874	D. 1st Order	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and the second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 12 minutes.	10
No tower	55	18	1874	D. 4th Order condensing.	Shows a <i>red</i> light only, between N. $34\frac{1}{2}^{\circ}$ E. and N. $50\frac{1}{2}^{\circ}$ E., covering the White and Boat Rocks. Exhibited from a window in a building painted white.	11
Round, black	227	63	1871	D. 1st Order	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	12
Octagonal, red and white vertical stripes.	130	33	1875	D. 4th Order	<i>Red</i> from N. 1° E. to N. 57° W.; <i>white</i> from N. 57° W. round by W. and S. to S. 50° E.; and <i>red</i> from S. 50° E. to S. 89° E. The lightkeepers' dwellings and boundary wall are painted white.	13
Octagonal, white	300	16	1863	Four Argand lamps with silver reflectors.	Visible only from W. round by N. to S.E.....	14

LIGHTS—*Continued.*

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Weather.
15	Amoy.....	Dodd Island	Summit of island.....	24° 26' 16"	118° 29' 4"	Occ.	26 secs. light and 4 seconds eclipse.	18
16	Takow.....	South Cape.....	About 550 yards north from high water mark at the extreme south point of the South Cape, For- mosa.	21° 55' 0"	110° 50' 38"	F.	.....	20
17	do.	Saracen Head	Front of flagstaff near the sum- mit of Saracen Head, at the entrance to Takow Harbour.	22° 36' 14"	120° 16' 0"	F.	.....	10
18	do.	Fort Zelandia.....	About 100 yards to seaward and directly in front of the tree on the top of the mound in Fort Zelandia.	23° 0' 20"	120° 10' 0"	F.	.....	10
19	do.	Fisher Island	S.W. extremity of island.....	23° 32' 53"	119° 28' 5"	F.	.....	15
20	Foochow	Ockseu	Summit of High Island	24° 59' 0"	119° 28' 0"	Rev.	1 minute	24
21	do.	Turnabout.....	Summit of island	25° 26' 0"	119° 58' 42"	F.	.....	23

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round, white.....	147	79	1882	D. 1st Order	White from S. 51° W. round by W. to N. 62° E.; red from N. 62° E. to N. 74° E.; white from N. 74° E. round by E. to S. 31° W.; and red from S. 31° W. to S. 51° W. The lightkeepers' dwellings and outhouses are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of half a minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	15
do.	180	$71\frac{1}{2}$	1883	do.	White from S. $54^{\circ} 55'$ W. round by W. and N. to S. 85° E.; and red from S. 85° E. to S. 28° E. Between the bearings S. $54^{\circ} 55'$ W. and S. $86^{\circ} 28'$ W., the visibility of the light, owing to the height of the land to the eastward of the lighthouse, will depend upon the distance of the observer from it. With the light bearing S. $54^{\circ} 55'$ W., a vessel will need to be between 15 and 20 miles distant in order to see it; but as it is brought to bear more to the westward, it illuminates more of the sea until, on the bearing S. $86^{\circ} 28'$ W., it is visible at all distances between the extreme limit of its range and the shore. To the westward and north-westward of the south-west point of Formosa, the light is entirely obscured by the land, between the bearings S. $80^{\circ} 13'$ E. and S. 28° E. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 8 minutes.	16
Square, white. Lan- tern let into seaward angle of building. Mast	164 $\frac{1}{2}$	$16\frac{1}{2}$	1883	D. 6th Order	Visible from N. 36° W. round by N. and E. to S. $20^{\circ} 30'$ E., where the light is shut out by the bluff at the foot of Ape Hill.	17
Mast	60	.....	1882	do.	Visible from N.E. round by W. to E. During the north-east monsoon vessels may anchor anywhere in from $4\frac{1}{2}$ to 5 fathoms, with the light bearing between N. 62° and N. 73° E. During the south-west monsoon the best anchorage will be found in from 6 to 7 fathoms, with the light bearing about N.E.	18
Round, black	205	33	1875	D. 4th Order	Visible all round except where obscured by the islands. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	19
do.	286	64	1874 altd. 1875	D. 1st Order	The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 12 minutes.	20
do.	257	54	1873	do.	Visible all round. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 3 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	21

LIGHTS—*Continued.*

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
22	Foochow	Middle Dog	N.E. extremity of Middle Dog Island.	25° 58' 20"	120° 2' 20"	F. & Fl.	½ minute	23
23	do.	Pagoda Rock	On the rock in the Pagoda Anchorage.			F.	.....	1
24	Ningpo	Square Island	Summit of island	29° 59' 21"	121° 45' 22"	F.	.....	9
25	do.	Tiger Island	do. do.	29° 57' 41"	121° 43' 49"	F.	.....	5
26	Shanghai and Ningpo.	Steep Island	do. do.	30° 12' 27"	122° 36' 13"	Rev.	½ minute	22
27	Shanghai ...	West Volcano	do. do.	30° 20' 25"	121° 51' 45"	F.	.....	15
28	Shanghai and Ningpo.	Bonham Island	Southern shoulder of island	30° 37' 21"	122° 25' 44"	Rev.	½ minute	22

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year. lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round, white	257	64	1872	D. 1st Order	Visible from S. 70° E. round by S. and W. to N. $40\frac{1}{2}^{\circ}$ E. From S. 70° E. round by E. to N. $40\frac{1}{2}^{\circ}$ E. the light is obscured by the Tongsha and Middle Dog Islands, except from S. 89° E. to N. $81\frac{3}{4}^{\circ}$ E., and from N. $61\frac{1}{2}^{\circ}$ E. to N. 57° E., where the light is also visible. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	22
Iron pile surmounted by a cage.	14	28	1871	Unclassed ...	Red, visible all round.....	23
Octagonal, white	123	33	1865 altd. 1872	D. 5th Order	Visible all round. A 5 cwt. fog bell is sounded <i>once</i> in fogs at 15-second intervals.	24
Octagonal, red and white vertical stripes.	148	30	1865 altd. 1872	D. 6th Order	Red, visible all round. A gong is sounded in fogs, <i>five times</i> in quick succession, at intervals of about 1 minute. The lightkeepers' dwellings are painted in red and white vertical stripes.	25
Round, black	243	47	1883	D. 3rd Order	Between the bearings N. $20^{\circ} 54'$ E. and N. $41^{\circ} 17'$ E. the light is obscured by Tripod Island, and to the eastward and south-eastward of Video and the Fisherman's Group it is not visible between N. $88^{\circ} 39'$ W. and N. $57^{\circ} 41'$ W. To the westward and north-westward of Hall Island and Hewett Islands it is also obscured between S. $82^{\circ} 13'$ E. and S. $63^{\circ} 35'$ E., with the exception of a ray between the bearings S. $65^{\circ} 53'$ E. and S. $64^{\circ} 39'$ E. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 3 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	26
do.	93	33	1872	D. 4th Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	27
Round, red and white horizontal bands.	237	47	1883	D. 3rd Order	Alternate <i>red</i> and <i>white</i> flashes. Between the bearings S. $14^{\circ} 41'$ W. and S. $47^{\circ} 30'$ W. the light is obscured by the high land of Bonham Island, and to the northward and eastward of Elliot, Raffles, and Senhouse Islands it is also obscured from S. $12^{\circ} 2'$ E. to S. $82^{\circ} 16'$ W., with the exception of rays between S. $11^{\circ} 24'$ E. and S. $10^{\circ} 36'$ E., between S. $2^{\circ} 21'$ E. and S. $0^{\circ} 44'$ E., between S. $1^{\circ} 31'$ W. and S. $3^{\circ} 19'$ W., and between S. $50^{\circ} 5'$ W. and S. $60^{\circ} 11'$ W. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 8 minutes.	28

Danger.—Vessels should pass half a mile outside of the small islet, represented on British Admiralty Chart No. 1,199 as lying a little more than $1\frac{1}{2}$ cables to the westward of Bonham Island, in order to avoid its outlying rocks, which are covered from 1 to 2 fathoms at low water.

LIGHTS—*Continued.*

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
29	Shanghai ...	Gutzlaff.....	Summit of island	30° 48' 34"	122° 11' 24"	F.	.....	20
30	do. ...	North Saddle	N.E. extremity of island.....	30° 51' 56"	122° 40' 21"	Rev.	1 minute	24
31	do. ...	Tungsha.....	Light-vessel on S.W. part of Tungsha Bank, in $3\frac{1}{2}$ fathoms water, with Gutzlaff Lighthouse bearing S. $23^{\circ} 13'$ E., Shaweishan Island N. $37^{\circ} 10'$ E.	31° 8' 6"	122° 0' 52"	Rev.	$\frac{1}{2}$ minute	11
32	do. ...	Shaweishan.....	Summit of island	31° 25' 27"	122° 14' 42"	F.	.....	22
33	do. ...	Kiutoan.....	Light-vessel, on the north side of the channel, in 4 fathoms water, with the Kiutoan Beacon bearing S. 67° W., distant about $2\frac{1}{2}$ miles.	31° 16' 41"	121° 46' 48"	F.	.....	11
34	do. ...	Kiutoan Small Beacon	On the south bank of the Yangtze, 5 miles N.W. of the old Kiutoan Lighthouse.	31° 19' 10"	121° 39' 9"	F.	.....	5
35	do. ...	<i>Lismore</i> Wreck Light-boat.	About 500 feet to the northward of the <i>Lismore</i> wreck.	.....	.....	F.	.....	1

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW.	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
No tower, white lantern.	270	24	1869	D. 3rd Order	Visible all round. Telegraph station. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 2 minutes between the first and second and second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	29
Upper part black, lower white.	273	54	1870	D. 1st Order	Visible from N. 52° W. round by W. and S. to N. 73° E. The remaining angle is chiefly obscured by the Saddle and Parker groups of islands. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 1 minute between the first and second and 5 minutes between the second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	30
Red, one mast with black ball.	40	..... altd. 1871	1855 altd. 1871	C.	“TUNGSHA” on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam horn will be sounded at intervals of 10 seconds. When necessary to lower the light for trimming, a small white light will be hoisted, and a flash-light burned; and, in order to show the direction in which the light-vessel is riding, a white riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a fixed red light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	31
Round, black	229	55	1871	D. 1st Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 3 guns with an interval of 5 minutes between the first and second and 1 minute between the second and third, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 15 minutes.	32
Red, one mast with black ball.	35	.....	1878	C.	“KIUTOAN” on her sides. In foggy weather a 10 cwt. fog bell will be struck three double blows in each minute, the interval between the blows of each pair being 5 seconds, and between two successive pairs of blows 15 seconds. When necessary to lower the light for trimming, a small white light will be hoisted, and a flash-light burned; and, in order to show the direction in which the light-vessel is riding, a white riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a fixed red light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	33
Wooden tripod, black	32	40	1868 altd. 1878	D. 6th Order	Red, visible all round, except on the landward side	34
Junk with one mast and ball.	.....	.....	1877	Unclassed ...	A red light with a white light underneath it.....	35

LIGHTS—*Continued.*

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
36	Shanghai....	Woosung.....	Left bank of the Woosung River, near Woosung.	31° 23' 18"	121° 29' 36"	F.	12 white, 8 red, 5 green	
37, 38	do.	Woosung Inner-Bar Lights.	Right bank of the Woosung River	.....	.....	F.	2	
39	Chinkiang, Yangtze.	North Tree	On the north bank of the river .....	.....	.....	F.	7	
40	do.	Cooper Island	On the upper end of Cooper Island, known also as Cooper Bank.	.....	.....	F.	7	
41	do.	Tung-lo-tu	On the north bank of the river .....	.....	.....	F.	7	
42	do.	Bate Point, or Fish-bourne Island.	On Bate Point .....	.....	.....	F.	7	
43	do.	Beaver, or Pottinger Island.	On the southern extremity of the island.	.....	.....	F.	7	
44	do.	Tantu.....	On the south bank of the river, distant 5.62 miles below Silver Island.	.....	.....	F.	7	
45	do.	Pei-sin-chow.....	Lower (east) end of island, distant 5 miles from Chinkiang.	.....	.....	F.	7	
46	do.	Bethune Point.....	Upper (west) end of Pei-sin-chow Island.	.....	.....	F.	7	
47	do.	Mud Fort.....	On a low point on the north bank of the river, marked on some of the British Admiralty charts as Mud Fort, distant from Bethune Point 21 miles.	.....	.....	F.	7	
48	do.	Wade Island.....	On the island, about 4 miles from the lower (north) end.	.....	.....	F.	7	
49	do.	Wuhu.....	East bank of the river, 3½ miles above Point Morton.	.....	.....	F.	7	
50	Kiukiang, Yangtze.	Point Haines.....	On the south bank .....	.....	.....	F.	7	
51	do.	Buckminster Island	Lower end of island .....	.....	.....	F.	7	
52	do.	Fitzroy Island	do. do. ....	.....	.....	F.	7	
53	do.	Tai-tzü-chi.....	On the N.W. side of the Rock Temple.	.....	.....	F.	7	
54	do.	Kiangloong Wreck Light-boat.	Moored off the left bank of the river abreast the wreck.	.....	.....	F.	7	
55	do.	Eagle Island	Lower end of island .....	.....	.....	F.	7	
56	do.	Christmas Island.....	Upper end of island .....	.....	.....	F.	7	
57	do.	Spencer Rock.....	Off the south (right) bank of the river, in Tungliu Reach.	.....	.....	F.	2	
58	do.	Dove Point.....	On the north (left) bank of the river.	.....	.....	F.	7	
59	do.	N.E. Crossing.....	do. do.	.....	.....	F.	7	

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Square, black.....	50	58	1865 altd. 1872, 1873, 1875, and 1878. 1872	D. 4th Order Unclassed ...	White from the bank of the Yangtze to the westward of the lighthouse to S. 2° W.; green from S. 2° W. to S. $59^{\circ} 15'$ W.; white from S. $59^{\circ} 15'$ W. to S. $72^{\circ} 20'$ W.; and red from S. $72^{\circ} 20'$ W. to the left bank of the Woosung River. A red low light on the river's bank, and a white high one on a pole a little inland. See Nos. 44, 45 in list of Beacons.	36 37, 38
Black, single pole, sur- mounted by wicker ball.	65	73	1868	D. 6th Order	Altered 1873. Position changed 1874.....	39
do.	51	62	1867	do.	Altered 1873. Position changed 1876, 1880, 1881, and 1882. In September 1883 this light was moved 345 yards E. from its former position.	40
do.	49	59	1871	do.	Altered 1875. Position changed 1877	41
do.	53	63	1867	do.	Altered 1873.....	42
do.	52	62	1867	do.	Altered 1872. Position changed 1878.....	43
do.	75	43	1867	do.	Altered 1875.....	44
do.	51	64	1871	do.	Altered 1873.....	45
do.	55	68	1867	do.	Altered 1875. Position changed 1878 and 1881. In May 1883 this light was moved 100 yards E. $\frac{1}{4}$ S. from its former position.	46
do.	55	70	1877	do.	Position changed 1878 and 1881	47
do.	52	70	1867	do.	Altered 1873.....	48
do.	77	44	1867	do.	Altered 1875.....	49
do.	36	52	1870	do.	Altered 1871.....	50
do.	32	48	1870	do.	Altered 1871. Position changed 1883.....	51
do.	35	49	1870	do.	Altered 1871.....	52
do.	32	46	1870	do.	Altered 1881	53
One mast with black ball.	25	.....	1873	do.	Altered 1875 and 1876. In June 1883 a light-boat showing a white light was substituted for the floating frame and red light. The light-boat is moored abreast of the wreck (not over it), to mark the starboard side of the channel for vessels entering from seaward; and it should be passed close to in order to avoid the wreck. From the wreck Hen Point bears S. 68° E., and Tai-tzu-chi Rock Temple N. 35° E.	54
Black, single pole, sur- mounted by wicker ball.	34	48	1870	do.	Altered 1871. Position changed 1879 and 1880. In October 1882 this light was moved 250 yards up river from its former position.	55
do.	38	53	1870	do.	Altered 1871. Position changed 1873, 1874, 1878, 1880, and 1883.	56
Black, floating frame, surmounted by wicker ball.	6	.....	1873	Unclassed ...	Only in position during very low water.....	57
Black, single pole, sur- mounted by wicker ball.	34	47	1870	D. 6th Order	.....	58
do.	38	52	1870	do.	In January 1883 this light was moved about 1 mile down river from its former position.	59

LIGHTS—*Continued.*

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Weather.
60	Kiukiang, Yangtze.	Point Otter, Lay Island	Lower (east) end of island			F.	.....	7
61	do.	Kiukiang Rocks.....	On the south (right) bank of the river.			F.	.....	2
62	do.	<i>Esbern Snare</i> Wreck	Off the centre of Bund			F.	.....	2
63	Hankow, Yangtze.	Hwang-lin-chow	On lower end of the island of that name.			F.	.....	7
64	do.	Low Point.....	On the point.....			F.	.....	3
65	do.	Ruined Fort.....	On top of fort			F.	.....	7
66	do.	Lee Rock	On bluff about 1 mile above rock			F.	.....	½
67	do.	Yanglow and Ten-foot Rock Light-boat.	At the point opposite Yanglow, and opposite Ten-foot Rock.			F.	.....	7
68	do.	Collinson and Hunter Islands Light-boat.	Lower end of Collinson Island and upper end of Hunter Island.			F.	.....	7
69	do.	Collinson Island Light-boat.	Upper end of Collinson Island.....			F.	.....	7
70	do.	Gravener Island Light-boat.	Upper end of Gravener Island.....			F.	.....	7
71	do.	Bouncer Island Light-boat.	Lower end of Bouncer Island			F.	.....	7
72	Chefoo.....	South-east Shantung Promontory.	On the south-eastern elbow of the South-east Shantung Promontory.	36° 54' 0"	122° 31' 45"	Rev.	½ minute	15 7/10
73	do.	North-east Shantung Promontory.	On the N.E. extremity of the North-east Shantung Promontory.	37° 24' 0"	122° 42' 0"	F.	.....	22
74	do.	Chefoo Light.....	Kung-tung-tao Island, highest part	37° 34' 10"	121° 32' 15"	F.	.....	22

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Black, single pole, surmounted by wicker ball.	36	47	1870	D. 6th Order	Altered 1871	60
Black, single pole.....	47	12	1870	Unclassed ...	<i>Red</i> pointing to the rocks; <i>white</i> in approaching from above or below.	61
Black, floating frame, surmounted by wicker ball.	6	.....	1875	do. ...	<i>Red</i> . Over the wreck; used only during a low state of the river.	62
Tripod beacon, painted red, with ball on top.	.....	60	1872	D. 6th Order	Visible from N. 85° E. round by S. and W. to N. 35° W.....	63
A single pole, with ball on top.	43	58	1871	do.	Altered 1872. <i>Red</i> . Visible from S.E. round by S. and W. to N. 15° E.	64
Tripod beacon, painted red, with ball on top.	32	.....	1873	do.	Visible from N. 35° W. round by N. and E. to S. 25° W.....	65
A single pole	60	.....	1882	Ordinary paraffin lantern.	<i>Red</i> . Visible all round	66
One mast and ball	32	.....	1873	D. 6th Order	Visible all round. Stationed at the point opposite Yanglow from about 1st July to 31st October, and at Ten-foot Rock from about 1st November to 30th June.	67
do.	32	.....	1871	do.	Altered 1873. Visible all round. Stationed at the upper end of Hunter Island from about 1st January to 30th June, and at Collinson Island from about 1st July to 31st December.	68
do.	32	.....	1871	do.	Altered 1873. Visible all round. Stationed on north bank from about 1st January to 30th June, and on south bank, to mark cut off, from about 1st July to 31st December.	69
do.	32	.....	1869	do.	Altered 1873. Visible all round. Position altered as necessary	70
do.	32	.....	1871	do.	Altered 1873. Visible all round. Stationed on north side of spit, to mark cut off, from about 1st July to 31st December, and on south side from about 1st January to 30th June.	71
Round, red and white horizontal bands.	96 $\frac{1}{2}$	77 $\frac{1}{2}$	1883	D. 1st Order	The lightkeepers' dwellings and boundary wall are painted white. A first-class siren, giving a blast of 4 seconds duration at intervals of 1 $\frac{1}{2}$ minutes, will be sounded during thick or foggy weather.	72
Round, white	220	64	1874	do.	<i>White</i> from S. 62° E. to S. 30° E.; <i>red</i> from S. 30° E. to S. 17° E.; <i>white</i> from S. 17° E. round by S. and W. to N. 21° E.; and <i>red</i> from N. 21° E. to N. 49° E. Between S. 59 $\frac{1}{4}$ ° E. and S. 18 $\frac{1}{4}$ ° E. the light is seven times obscured by peaks; the obscuration between S. 26° 18' E. and S. 23° 10' E. being caused by Alceste Island. The lightkeepers' dwellings and boundary wall are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 1 minute between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	73
Round, white and red horizontal bands.	242	45	1867	C. 1st Order	Visible all round. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 5 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 8 minutes.	74

LIGHTS—*Continued.*

No.	District.	Name of Light.	Location.	Latitude N.	Longitude E.	Fixed, Fixed & Flashing, Re- volving, Occulting.	Intervals between the Flashes.	Miles seen in clear Wea- ther.
75	Chefoo.....	Howki Island	Summit of island	38° 3' 45"	120° 39' 0"	Rev	½ minute	24
76	Tientsin.....	Taku	Light-vessel outside the bar and moored in 17 feet of water at low water springs.	38° 53' 0"	117° 50' 30"	F.	.....	10
77	Newchwang	Newchwang	Light-vessel in 5 fathoms water, about 3½ miles W.S.W. from bar of Liao River.	40° 35' 0"	122° 0' 0"	F.	.....	11

LIGHTS—Continued.

Colour, or any Peculiarity of Light-tower.	Height in Feet of Centre of Light above HW	Height in Feet of Building from Base to Vane.	Year lighted.	Character and Order of Illuminating Apparatus.	REMARKS.	No.
Round, black	328½	46½	1882	D. 1st Order	Visible all round. The lightkeepers' dwellings are painted white. The keepers at this lighthouse on hearing a bell, fog horn, steam whistle, or any other sound, during foggy or thick weather, which shall indicate the proximity of a vessel, will fire 2 guns with an interval of 2 minutes between them, and, if the vessel's fog signal is still heard, will repeat the firing after a space of 10 minutes.	75
Red, one mast with black ball.	37½	.....	1880	D.	[Note.—The exhibition of this light will hereafter be discontinued on the 16th December of each year and resumed on the 1st March of the following year.	76
Red, three masts, with black ball on main- mast only.	40	.....	1867 altd. 1871	C.	"TAKU" on her sides. In foggy weather a gong will be sounded at 1-minute intervals. In order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from the opening of the river to the 30th November, on account of ice. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a <i>fixed red</i> light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	77
					"NEWCHWANG" on her sides. A gun will be fired when vessels are seen running into danger, and the course that should be steered will be signalled by the Commercial Code. In foggy weather a steam fog horn will be sounded at intervals of 10 seconds. When necessary to lower the light for trimming, a small <i>white</i> light will be hoisted and a blue light burned; and, in order to show the direction in which the light-vessel is riding, a <i>white</i> riding-light will be exhibited from sunset to sunrise from the fore-stay, at a height of 6 feet above the rail. This light-vessel is only in position from about the 1st April to the 15th November, on account of the ice. If the light-vessel be driven from her proper position to one where she is of no use as a guide to shipping, the usual light will not be shown, but a <i>fixed red</i> light will be exhibited at each end of the vessel; the ball will be struck as soon as possible, and till struck it will be surmounted by a red flag.	

BUOYS.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
CANTON.				
1. Dutch Folly North Buoy	Wooden conical-shaped buoy, painted red above water.	Near Dutch Folly Island, Canton River.	8 feet	Marks the western extremity of the channel, northern side, between the rocks, on which the depth of water is 4 feet at low water spring tides. A <i>red</i> light is placed on it from sunset to sunrise.
2. Dutch Folly South Buoy	Wooden conical-shaped buoy, painted black.	do. do.	12 do.	Marks the western extremity of the channel, southern side, between the rocks. Moored close to the northern side of the rock, on which the depth of water is 2 feet at low water spring tides. A <i>green</i> light is placed on it from sunset to sunrise.
3. Macao Fort Rock Buoy	Wooden conical-shaped buoy, painted black.	On the north-east extremity of Macao Fort Rock.	10 do.	Marks the north-east extremity of Macao Fort Rock. A <i>green</i> light is placed on it from sunset to sunrise. Vessels should pass between this buoy and the Haeshin Rock Buoy.
4. Haeshin Rock Buoy.....	Wooden conical-shaped buoy, painted red above water.	South-western edge of Haeshin Rock.	10 do.	Marks the south-western edge of Haeshin Rock. A <i>red</i> light is placed on the buoy from sunset to sunrise. Vessels should pass between this buoy and the Macao Fort Rock Buoy.
5. Shamien Rock Buoy.....	Wooden conical-shaped buoy, painted in red and black chequers above water.	On the northern extremity of the Shamien Rocks.	12 do.	Marks the northern extremity of Shamien Rocks. A <i>red</i> light is placed on the buoy from sunset to sunrise. Vessels entering should leave this buoy on the port hand when rounding-to to anchor in the harbour.
SWATOW.				
1. Dove Rock Whistling Buoy.	Red and black chequered automatic whistling buoy, 10 feet in diameter at the water line.	Off the Dove Rock.....	4½ fathoms.	Placed about 2 cables from the pinnacle of the Dove Rock, so as to mark the S.E. extremity of the reef.
2. Mud Flat Buoy	Red conical buoy, 6 feet in diameter at the water line, surmounted by a black spherical cage.	Outer edge of Mud Bank; E. $\frac{1}{2}$ N. of Customs Pier; distant three-quarters of a mile.	2 do. ...	Marks the southern edge of the mud bank on the north side of the harbour.
3. Wyoming Rock Buoy...	Black conical buoy, 6 feet in diameter at the water line, surmounted by a black inverted frustum cage.	Off the rock, Swatow Anchorage	7 do. ...	This buoy is placed about 40 yards N.E. from the rock.

BUOYS—*Continued.*

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
4. Madras Rock Buoy.....	Black conical buoy, 6 feet in diameter at the water line, surmounted by a black spherical cage.	Off the rock, Swatow Anchorage	3½ fathoms...	This buoy is placed about 40 yards N. by E. from the rock, which has only 8 feet of water on it at low water spring tides.
AMOY.				
1. Coker Rocks East Buoy	Black and white chequered conical buoy, 7 feet 6 inches in diameter.	Eastward of the Coker Rocks	8 fathoms...	Vessels should not pass between these buoys.
2. Coker Rocks West Buoy	Red and white chequered conical buoy, 6 feet 5 inches in diameter.	Westward of the Coker Rocks	6½ do. ...	
3. Brown's Rocks East Buoy.	Black and white chequered conical buoy, 6 feet in diameter, surmounted by a black spherical cage 2 feet in diameter.	Eastward of the Brown's Rocks	12 do. ...	Vessels should not pass between these buoys.
4. Brown's Rocks West Buoy.	Red and white chequered conical buoy, 6 feet in diameter, surmounted by a black spherical cage 2 feet in diameter.	Westward of the Brown's Rocks	6½ do. ...	
5. Harbour Rock Buoy.....	Red and black chequered conical buoy, 3 feet 4 inches in diameter.	Close to the western edge of the Harbour Rock.	4½ do. ...	About 130 fathoms S.W. of Dock Island. Vessels passing inside this buoy should give it a berth of not less than 50 fathoms.
6. Kellett Spit Buoy	Red and black vertically striped conical buoy, 6 feet in diameter.	On the northern end of the Kellett Spit.	4 do. ...	Vessels should not pass between this buoy and the Island of Kulangsu.
7. Quemoy Spit Buoy.....	Red conical buoy, 6 feet in diameter, surmounted by a black spherical cage 2½ feet in diameter.	On the southern end of Quemoy Spit.	4½ do. ...	Quemoy Pagoda bears N. $\frac{1}{2}$ W., and Taitan Lighthouse N. 70° W. Vessels should not pass between this buoy and Quemoy Island.
TAMSUI.				
1. Northern Bar-buoy.....	Black conical buoy, 6 feet in diameter.	Northern side of approach to Tamsui Bar.	30 feet	Chinese Black Beacon, N. 56° E.; White Beacon, S. 86° E.
2. Southern Bar-buoy.....	Red conical buoy, 6 feet in diameter.	Southern side of approach to Tamsui Bar.	28 do.	Chinese Black Beacon, N. 47° E.; White Beacon, N. 86° E.
3. Harbour Buoy.....	Red nun buoy.....	Northern edge of mud bank, Tamsui Harbour.	7 do.	White Beacon, N. 6° W.; distant about 450 yards.
4. Inflexible Reef Buoy	Black conical buoy, 4 feet in diameter, surmounted by a black spherical cage.	Inflexible Reef, Kelung Harbour.	66 do.	Image Point, N. 58° W.; Ruin Rock, S. 28° W.
5. Coral Shoal Buoy.....	Red conical buoy, 4 feet in diameter, surmounted by a black spherical cage.	To the eastward of shoal, Kelung Harbour.	30 do.	Image Point, N. 24° W.; Ruin Rock, S. 61° W.
FOOCHOW.				
1. Min Reef Whistling Buoy.	Red and black chequered automatic whistling buoy. The name "MIN" is painted on the buoy in white letters.	Off the northern extremity of Min Reef.	11 fathoms...	10 feet diameter. From the buoy Chang-chi Peak bears N. 49° E.; Sharp Peak bears N. 73° W.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
2. Aymar Rock Buoy	Red and black chequered buoy, surmounted by a black diamond-shaped cage. The name "AYMAR" is painted on the buoy in white letters.	Aymar Rock, entrance to Min River.	11 fathoms...	6 feet diameter, about 3 cables E. of the rock. Chang-chi Peak bears N. $66^{\circ} 30'$ E.; Middle Dog Lighthouse bears S. $35^{\circ} 15'$ E.; Sea Dog bears S. $55^{\circ} 30'$ E.
3. Outer or No. 1 Buoy....	Red and black horizontal striped fairway buoy, surmounted by a black cage.	Entrance to Min River	7 ' do. ...	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. $85^{\circ} 1'$ W.; Triangle Head bears S. 50° W.
4. Middle or No. 2 Buoy	Red and black horizontal striped fairway buoy, surmounted by a black conical frustum cage.	do. do.	$2\frac{1}{2}$ do. ...	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. $69\frac{1}{2}^{\circ}$ W.; Triangle Head bears S. 45° W.
5. Inner or No. 3 Buoy....	Red and black horizontal striped fairway buoy, surmounted by a black cage.	do. do.	$6\frac{1}{2}$ do. ...	10 feet diameter and 18 feet high to top of cage. Sharp Peak bears N. 47° W.; Round Island bears S. 58° W.
6. Eme Rock Buoy.....	Red nun buoy	Starboard side of channel, Min River.	$2\frac{1}{4}$ do. ...	Clears Eme Rocks. Sharp Peak Point bears S. 77° E.; Sharp Peak Summit bears N. 12° E.
7. Temple Rock Buoy.....	do.	Temple Rock, Min River.....	$4\frac{1}{2}$ do. ...	Marks the southern extremity of the rock.
8. Spiteful Island Buoy ...	do.	Starboard side of channel, Min River.	$4\frac{1}{2}$ do. ...	Clears the rocks on starboard hand.
9. do. do. ...	Black nun buoy	Port side of channel, Min River.	3 do. ...	Clears the rocks off Spiteful Island.
NINGPO.				
1. Sesostris Rock Buoy	Black and red chequers, surmounted by a black cage.	Near the rock in mid-channel	5 fathoms ...	This buoy is placed to the eastward of the rock, on which there is 9 feet of water at low water spring tides.
2. Seaou-yew Spit Buoy ...	Black buoy surmounted by a black cage.	On the end of the mud spit projecting from Seaou-yew Island.	14 feet	Tiger Island Lighthouse bears S. 23° W.; Ta-yew Island (N.W. point) bears N. 75° E.
SHANGHAI.				
1. Ariadne Rock Whistling Buoy.	Red and black chequered automatic whistling buoy.	About 50 fathoms south of the Ariadne Rock.	33 feet	8 feet in diameter, and 8 feet above the water line. The Ariadne Rock just shows at low water spring tides.
2. Blockhouse Shoal Buoy	Red buoy, with black spherical cage.	Off the S.W. edge of Blockhouse Shoal.	34 do.	6 feet diameter, 12 feet high. Kiutoan Beacon bears S. $5^{\circ} 15'$ W., distant about $2\frac{9}{10}$ miles.
3. <i>Lismore</i> Wreck Buoy ...	Green nun buoy, with the word "WRECK" and the numeral I painted on it in white.	Immediately below the wreck of the <i>Lismore</i> , in line with the wreck and Woosung Lighthouse.	13 do.	4 feet diameter.
4. Woosung Spit Buoy.....	Red and black vertical striped buoy with spherical cage.	On the eastern end of Woosung Spit and starboard side of channel at the entrance to the Woosung River.	20 do.	10 feet diameter, 18 feet high to top of cage.

BUOYS—Continued.

DISTRICT NUMBER AND NAME.	MARK.		Depth: Low Water Spring Tides.	NOTE.
	Description.	Position.		
Yangtze River above Woosung.	5. Bush Island Buoy	Red and black vertical striped buoy, 6 feet in diameter, with black spherical cage.	To the north-west of Bush Island.	Uncertain.... Vessels should not pass between this buoy and Bush Island.
	6. Dove's Nest Buoy	Red buoy with black spherical cage.	On the edge of the Dove's Nest Shoal, on the starboard side of the channel.	do. ... 10 feet diameter, 18 feet high to top of cage.
	7. Actæon Buoy* ...	do. do.	S.W. elbow of Actæon Shoal...	do. ... 6 feet diameter, 11½ feet high.†
	8. Centaur Lower Buoy.*	Black buoy with black spherical cage.	S.E. end of the Centaur Bank	do. ... do. +
	9. Centaur Buoy* ...	do. do.	Off the N.E. end of the Centaur Bank.	do. ... do. +
	10. Middle Bank Buoy.‡	do. do.	Off the S.E. extremity of Middle Bank.	do. ... do. +
	11. Middle Bank Upper Buoy.‡	Red buoy with black spherical cage.	On the edge of the bank forming the north-eastern side of the channel.	do. ... do. +
	12. South Bank Buoy‡	Black buoy with black spherical cage.	do. do.	do. ... do. +
	13. Langshan Buoy‡	Red buoy with black spherical cage.	do. do.	do. ... do. +
	14. Vine Point Lower Buoy.‡	do. do.	On the edge of the lower part of Vine Point Shoal.	do. ... do. +
	15. Vine Point Buoy‡	do. do.	Off the north-western edge of Vine Point Shoal.	do. ... 10 feet diameter, 18 feet high to top of cage.†
	16. North Tree Rocks Buoy.	do. do.	About 100 yards to the south-westward of the rocks.	Vessels should not attempt to pass between this buoy and the left bank of the river.
	17. Drinkwater Point Buoy	Red and black horizontal striped fairway buoy, with black spherical cage.	In the North Channel	27 feet 10 feet diameter, 18 feet high to top of cage. Shaweishan Lighthouse bears N. 83° E., distant about 11½ miles.
TIENTSIN.	1. Entrance Buoy.....	Red iron buoy, surmounted by a black cage.	On the outer edge of the bar, to mark its commencement and the entrance to the channel.	2 feet.
	2. South Buoy	Black iron buoy	On the south side of the bar, to mark a bend in the channel.	4 do.
	3. Inner Buoy	Red iron buoy	On the inner end of the bar, to mark the inner entrance to the channel.	4 do.
NEWCHWANG. §	1. Entrance Buoy	Black conical buoy, surmounted by a black frustum cage.	On the S.W. extremity of west bank and outer edge of the bar.	18 feet Light-vessel bears S. 64° W., distant 3½ miles. Inner Buoy bears N. 71° E., distant 2½ miles.
	2. Middle Ground Buoy ...	Red nun buoy, surmounted by a black spherical cage.	On the western edge of the Middle Ground Shoal.	6 do. Light-vessel bears S. 76° W., distant 4½ miles.
	3. Inner Buoy.....	Black conical buoy, surmounted by a black diamond-shaped cage.	On the S.E. edge of the west bank and inner edge of the bar.	10 do.

* These three buoys lead over the Centaur Crossing.

† The banks at the Centaur and Langshan Crossings are subject to frequent changes. These parts of the river should therefore be navigated with caution, and the lead kept going.

‡ These six buoys lead over the Langshan Crossing.

§ From the 1st November until the 10th April the three iron buoys in the Newchwang district are replaced by wooden spar buoys, of similar colours, surmounted by black cages fixed on bamboo perches.

BEACONS.

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
	CANTON.			
1, 2	Dutch Folly North Beacons.	On the sunken rocks near Dutch Folly Island, north side of the channel.	Round granite beacons, 26 feet high, painted red, and surmounted by a lantern.	Fixed <i>red</i> lights are exhibited from sunset to sunrise.
3	Dutch Folly South Beacon.	On the sunken rocks near Dutch Folly Island, south side of the channel.	A round stone and brick beacon, 22 feet high, painted black, and surmounted by a lantern.	A fixed <i>green</i> light is exhibited from sunset to sunrise.
4-6	Taishek Barrier Beacons.	On the northern side of the Taishek Barrier Channel, Blenheim Passage.	Spar beacons, 28 feet above high water. The eastern and western beacons are each surmounted by a circular frame, and painted red, white, and red. The middle beacon is painted red and white.	Fixed <i>red</i> lights are exhibited from sunset to sunrise on the eastern and western beacons.
7	Taimei Beacon.....	On the sandspit off 49th Point, Marines Island, Blenheim Passage.	Spar beacon, 24 feet above high water, surmounted by a square frame, and painted black, white, and black.	A fixed <i>white</i> light is exhibited from sunset to sunrise.
	SWATOW.			
8	Gochang Rock Beacon.	On the rock, Swatow Anchorage	Black, granite beacon, 5 feet in diameter, 5 feet high, and carrying a 5 feet high pole surmounted by a black wicker basket.	The highest of these rocks is covered at high water. From the beacon Gochang Point bears S. 31° E., and is distant about 350 yards; Bottefurh's Rock bears N. 76° E.
	AMOY.			
9	Alibi Rock Beacon...	On a rock a little to the N.E. of the northern end of Kulangsu.	Black, granite obelisk, 22 feet high above the rock.	The rock dries at low water.
10	Kangsimtah Beacon.	These two beacons mark two reefs of rocks (extending out from Kulangsu) at points where they uncover at $\frac{3}{4}$ ebb.	Black, granite obelisk, 15 feet high above the rock on which it is built.	
11	Chiotah Beacon		Black, granite obelisk, 17 feet high above the rock on which it is built.	
12-23	Harbour Marks.	On rocks in the Inner Harbour. Three off the northern end of Kulangsu; five on the west side of the Inner Harbour; and four on the east side of the Inner Harbour.	12 perches, with round basket tops. The four on the eastern side of the Inner Harbour are painted red; the remaining eight black. The baskets on all the perches are painted white.	The first three mark the northern edges of reefs off the north end of Kulangsu. The next five are on rocks on the western side of the Inner Harbour. The last four are on the eastern side.
	TAMSUI.			
24	Entrance Beacon.....	On the northern bank of the river, Tamsui, 1,030 yards from the Red Fort, from which it bears N. 87° W.	A pyramid-shaped beacon, 49 feet high, consisting of four poles surmounted by a wicker cage; the whole painted white.	Beacon in line with Red Fort or Custom House forms a leading mark for entering Tamsui Harbour, subject to changes in Bar channel.

B E A C O N S—*Continued.*

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
25	Bush Island Beacon	On the extreme west end of Bush Island, Kelung Harbour.	Grating, 8 feet by 6 feet, mounted on a single spar 42 feet high. The grating is painted white, the spar is painted black.	
FOOCHOW.				
26	Oriental Rock Beacon.	On Oriental Rock, Kimpai Pass	Spar mounted with a cage, 4 ft. square on the upper, and 2 ft. 6 in. on the lower part. Painted red, with the words "ORIENTAL ROCK" in white on the cage. Shows 14 ft. above high water spring tides.	At high-water spring tides the rock is covered 4 feet. Vessels must pass to the south of the beacon, and not nearer than 100 feet.
27	Half-tide Beacon.....	On the Half-tide Rock, near the upper end of Tongue Shoal.	Built of granite, painted black	The rock is submerged 5 feet at high-water springs.
28	Pagoda Rock Beacon	On the rock in the Pagoda Anchorage.	Iron pile surmounted by a cage painted red.	A red light is exhibited from sunset to sunrise. The rock is submerged 10 feet at high-water springs.
29	Mamoi Rock Beacon	On Mamoi Rock.	Pole with cage painted red	The rock is only covered at high water.
WENCHOW.				
30	Elephant Rock Beacon. (Formerly erroneously termed "Lion Rock Beacon.")	On a small pinnacle rock called " Hsiang - shih " (Elephant Rock), about 600 feet S.E. of the east end of Pagoda Island (Ku-hsü, or, vulgarly, Kiang-sin-sze), which is in the middle of the river opposite the north wall of the city.	The beacon consists of an iron mast 3 inches in diameter, painted red, on which is fixed a bamboo basket 6 feet in diameter, painted red, with a white horizontal band round the centre.	The top of the mast is 15 feet above high-water springs. The centre of the basket is 9 feet 6 inches above high-water springs. The rock is submerged 8 feet at high-water springs.
31, 32	1st Crossing or Lower Anchorage Beacons.	* On the right bank of the Ou River, about 1½ miles to the westward of the Lower Anchorage Station.	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The whole painted black.	These beacons kept in line should indicate the best channel for crossing to the south-western point of Ch'i-tu-t'u (Big Island).
33, 34	2nd Crossing or Ch'i-tu-t'u Beacons.	* On the western end of Ch'i-tu-t'u (Big Island).	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The whole painted red.	These beacons kept in line should indicate the best channel between Ch'i-tu-t'u and Yang-fu-shan-t'u.
35, 36	3rd Crossing or Yang-fu-shan-t'u Beacons.	* Towards the N.W. end of Yang-fu-shan-t'u.	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The whole painted black.	These beacons kept in line should indicate the best channel between Yang-fu-shan-t'u and the left (northern) bank of the river.
37, 38	4th Crossing or Chiang-t'o Beacons.	On the left bank of the river, a short distance to the eastward of Chiang-t'o.	1. A pole, 36 feet high, surmounted by a bamboo frame 6 feet square. 2. A pole, 26 feet high, surmounted by a pyramidal bamboo frame 6 feet high. The whole painted red.	These beacons kept in line should indicate the best channel between the northern bank of the river and the city.

* The names of two islands in the Ou River are incorrectly given in the British Admiralty Chart No. 1,763: Yang-fu-shan-tau or Chi-tu Island should be Yang-fu-shan-t'u, and Sha-kia-tau or Big Island should be Ch'i-tu-t'u or Big Island.

B E A C O N S—*Continued.*

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
39	NINGPO. Alligator Beacon.....	On Alligator Point, a ledge of rocks extending 2 cables south from the extreme southern end of Kintang Island.	Stone beacon, painted red.....	Long-nose Point bears N. $56\frac{1}{2}$ ^o W.; Just-in-the-way bears S. 87° E.
40	Blonde Rock Beacon	Blonde Rock, in the Kintang Channel.	Iron beacon, with cage, painted black. (This beacon was destroyed during a gale in August 1883. It will be replaced by a new one as soon as practicable. The iron pile of the old beacon, at an inclination of about 45° , still marks the rock.)	Sanshan Islet bears S. 42° E.; Square Island N. 65° W.; Beacon Hill in one with the citadel S. 45° W. Rock awash at low water.
41	Tiger's Tail Beacon..	On a rock bearing N. 43° W. from the tower on Tiger Island; distance 210 yards.	Iron beacon, painted black, with a white cage.	Rock awash at half tide.
42	Nemesis Rock Beacon.	On a ledge of rocks extending from the N.E. point of Tayew Island.	Hard-wood spar, painted red, with an inverted frustum cage, painted white.	Erected by Chinese, but maintained by the Customs.
43	SHANGHAI. Kiutoan Beacon.....	South side of entrance to the River Yangtze.	Round black tower, 70 feet high.	Formerly a light was exhibited from this tower, but it was discontinued in April 1878, when the <i>Kiutoan</i> Lightship (Light No. 33 of this publication) was first placed in position. The beacon is 4 cables from the shore, and of little use as a guide to a stranger.
44, 45	Woosung Inner-Bar Marks.	On the right bank of the Woosung River.	1. A low pole with a pyramidal top. 2. A high pole with a rectangular top.	These poles kept in line lead across the bar in the depth of water which is signalled from the Customs station during daylight. A <i>red</i> <i>low</i> light on the river's bank and a <i>white</i> <i>high</i> light on the low pole indicate the same channel by night.
46	KIUKIANG. Lay Island Beacon...	On the island, about 2 miles from the upper (west) end.	A spar beacon, 45 feet above high water, surmounted by a black ball, and painted black and white.	It marks the channel in crossing over from the south to the north bank during the low state of the river in winter.
47	CHEFOO. Fairway Rock Beacon.	On the Fairway Rock, off the N.W. point of Yentai Hill.	An iron rod surmounted by a cage.	In 7 to 8 feet of water at low-water spring tides. Chefoo Peak, N. 4° W.; Sentry Rock, N. 38° E.; Chefoo Light-house, N. 85° E.
48	TIENTSIN. Wooden Beacon.....	On the north bank, at the mouth of the Peiho.	Pyramid shape, painted white.	
49, 50	North Bank Marks	On the north bank, at the mouth of the Peiho.	Two poles, 30 feet high, with cages.	

B E A C O N S—*Continued.*

No.	NAME OF DISTRICT AND NAME OF MARK.	POSITION.	DESCRIPTION.	REMARKS.
51, 52	South Bank Marks	On the south bank, near the mouth of the Peiho.	Two poles, 30 feet high, with cages.	
53	South Bank Mark	On the south bank, near the C.M.S.N. Co.'s godown.	A board painted one half black, one half white, erected on two poles 20 feet high.	It marks the channel after rounding the red buoy.
	NEWCHWANG.			
54	East Spit Beacon ...	On the East Spit, a shoal extending south-westerly from the dry bank of the river.	Red spar, mounted with two red balls; 25 feet above high water.	It marks the western edge of East Spit, on the starboard side of channel. The Whale's Back Shoal, on the opposite side of the fairway, bears about S.W. by W. $\frac{1}{2}$ W. from this beacon.
55	Nodding Tommy Beacon.	On the east bank of the river, and one mile above East Spit Beacon.	Red spar, mounted with a red diamond-shaped box, which has a white band 1 foot wide painted round the middle of it. The spar is 25 feet above high water.	It marks the east bank of the river.
56	Middle Bank Beacon	On the east bank of the river, about $2\frac{1}{4}$ miles above Nodding Tommy Beacon.	Red spar, mounted with a red spherical cage, 25 feet above high water.	Middle Bank Shoal, on the opposite side of the channel, bears about S.W. by W. $\frac{3}{4}$ W. from this beacon.
57	Flagstaff Beacon	On dry ground on the east bank of the river, and 7 cables N.E. from Middle Bank Beacon.	Spar, 50 feet high, mounted with two diamond-shaped boxes. The spar is painted red from the ground to the bottom of lower box, white from thence to the bottom of upper mark, and the remainder red.	
58	Fish House Beacon	On the west bank of the river, near high-water mark, and a short distance from the bend that leads to the harbour.	Black spar, 40 feet high, mounted with a black diamond-shaped box.	It marks the channel in crossing over from the east to the west bank of the river.

A. M. BISBEE,

Coast Inspector.

By Order of the INSPECTOR GENERAL,

E. B. DREW,

Statistical Secretary.

INSPECTORATE GENERAL OF CUSTOMS,

STATISTICAL DEPARTMENT,

SHANGHAI, 29th December 1883.

APPENDIX I.

LIST OF FOREIGN LIGHTS STAFF.

No.	NAME.	Rank.	Date of first Appointment.		Date of Appointment to present Position.		District or Section.
LIGHT-VESSELS.							
1	R. T. Crighton	Captain	June	1866	August	1872	Shanghai.
2	James Sloane.....	,"	July	1880	July	1880	Tientsin.
3	W. W. Orfeur	First Mate*..	March	1880	March	1880	Newchwang.
4	E. Osborn	," , *..	July	,"	June	1881	Shanghai.
5	P. N. Paulsen	," , ..	March	1882	March	1883	Newchwang.
6	H. A. Frandsen.....	," , ..	November	1882	June	,"	Tientsin.
7	G. Deitz.....	Second Mate	March	1877	March	1877	Newchwang.
LIGHTHOUSES.							
LIGHTKEEPERS.							
8	C. G. Amy	Chief, A	October	1859	October	1881	Chefoo.
9	J. Martin	," ,	March	1880	July	1883	Amoy.
10	J. Noble	Chief, B	June	1877	July	1883	Amoy.
11	G. Taylor	," ,	,"	,"	,"	,"	,"
12	A. Sutherland	," ,	,"	,"	,"	,"	,"
13	J. Harp.....	," ,	,"	,"	,"	,"	,"
14	N. Smerdeley	," ,	March	1869	,"	,"	Shanghai.
15	G. W. Hayden	," ,	November	1872	,"	,"	,"
16	C. M. Peterson	," ,	July	1872	,"	,"	Amoy.
17	F. M. Coffin.....	Second, A ...	October	1871	July	1883	Shanghai.
18	C. W. Stone	," ,	June	1876	,"	,"	,"
19	J. Eccles	," ,	,"	1877	,"	,"	Chefoo.
20	T. Cunningham.....	," ,	,"	,"	,"	,"	Shanghai.
21	C. W. Bond	," ,	,"	,"	,"	,"	,"
22	D. Wisas	," ,	September	1875	,"	,"	Chefoo.
23	D. Botelho	," ,	December	1861	,"	,"	Amoy.
24	J. Anderson.....	Second, B ...	August	1873	July	1883	Chefoo.
25	L. Antonio	," ,	April	1871	,"	,"	Shanghai.

APPENDIX I—*Continued.*

No.	NAME.	Rank.	Date of first Appointment.	Date of Appointment to present Position.	District or Section.
26	A. Michel	Second, <i>B</i> ...	December 1874	July 1883	Amoy.
27	P. F. S. Wilnau	" " ...	November 1879	" "	"
28	P. J. J. Stellingwerff.....	" " ...	February 1877	" "	"
29	W. Knight	Third, <i>A</i>	February 1878	July 1883	Tientsin.
30	C. May	" "	July 1880	" "	Amoy.
31	F. X. Meira	" "	October "	" "	"
32	C. G. Soelberg	" "	April 1881	" "	"
33	G. E. von Pein.....	" "	" "	" "	"
34	J. H. Hammeran.....	" "	" "	" "	Newchwang.
35	J. Shields.....	Third, <i>B</i>	August 1881	October 1881	Amoy.
36	A. F. C. Penzig	" "	May 1882	May 1882	Shanghai.
37	I. C. Hills	" "	January 1883	January 1883	"
38	H. U. Hartmann	" "	March "	March	"
39	A. A. Schlur.....	" "	April "	April	"
40	J. Chapman.....	" "	June 1878	October	Amoy.
41	J. S. de Elizaga	" "	December "	" "	"
42	D. Fernandez	" "	June "	" "	"
43	W. R. Somers [<i>on probation</i>]	" "	January 1883	January	"
44	J. H. A. Schaaf [<i>on probation</i>]	" "	February "	February	"
45	C. A. Osterholm [<i>on probation</i>]	" "	September 1882	April	"
46	H. Johnson [<i>on probation</i>].....	" "	June 1883	June	Shanghai.
47	A. Theege [<i>on probation</i>]	" "	" "	" "	"
48	E. Rayner [<i>on probation</i>]	" "	September "	September	"
49	P. W. Rasmussen [<i>on probation</i>]	" "	October "	October	"
50	J. Rodrigues.....	Fourth, <i>A</i> ...	August 1877	December 1881	Shanghai.
51	L. J. A. de Luz.....	" " ...	January 1878	" "	"
52	J. M. Collaço.....	" " ...	" "	" "	"
53	A. M. dos Santos	Fourth, <i>B</i> ..	March 1882	March 1882	Amoy.
54	A. Q. de Elizaga [<i>on probation</i>]	" " ...	January 1883	January 1883	"
LIGHTKEEPERS AND ENGINEERS.					
55	C. J. Scholinus [<i>on probation</i>].....		November 1883	November 1883	Chefoo.
56	J. F. Walter (Assistant Lightkeeper and Engineer) [<i>on probation</i>].		" "	" "	"

APPENDIX II.

LIST OF CHINESE LIGHTS STAFF.

No.	NAME.		Rank.	Date of first Appointment.	Date of Appointment to present Position.	District or Section.
	In English.	In Chinese.				
LIGHTKEEPERS.						
1	Su Chiang	蘇 江	Fourth, C	March 1878	March 1878	Canton.
2	Ho Kao	何 高	" "	September 1882	December 1883	"
3	Liang Kuang	梁 光	" "	April 1880	April 1880	"
4	Liang Pa	梁 伯	" "	June "	June "	"
5	Lao Shih-wu	勞 什 五	" "	October 1881	October 1881	"
6	Ch'èn Chin	陳 金	" "	November "	November "	"
7	Liang Tou-p'i	梁 瘡 皮	" "	December 1883	December 1883	"
8	Lao Tê	勞 德	" "	October 1881	October 1881	"
9	Ch'èn Kuan-hsiung	陳 觀 雄	" "	September 1879	September 1879	Amoy.
10	Hu I-t'ien	胡 衣 田	" "	April 1880	April 1880	"
11	Lin Chiang-chiang	林 江 江	" "	" 1876	September "	"
12	Hsü Hsi-mei (No. 1)	許 細 妹	" "	July 1874	" 1879	"
13	Hsü Hsi-mei (No. 2)	許 細 妹	" "	December 1879	February 1880	"
14	Nien A-pa	念 阿 拔	" "	February 1880	April "	"
15	Chêng A-tê	鄭 阿 得	" "	November 1876	June "	"
16	Lin A-tao	林 阿 道	" "	March 1881	March 1881	"
17	Hung Hua	洪 華	" "	December 1880	December 1880	"
18	Chi Hsiang	紀 响	" "	May 1881	April 1882	"
19	Lin Ch'iu	林 求	" "	September 1871	November 1878	"
20	Li Chi	李 吉	" "	May 1862	June 1877	"
21	Li T'iao	李 跳	" "	November 1878	November 1878	"
22	Li Tun	李 盾	" "	" "	June 1882	"
23	Huang Chên	黃 振	" "	" 1871	November 1878	"
24	Ts'ai Tz'ü-ch'ing	蔡 賜 輕	" "	October 1880	March 1883	"
25	Li Lai	李 來	" "	September 1877	" 1879	"
26	Ch'èn Jih	陳 日	" "	" 1878	December 1880	"

APPENDIX II—*Continued.*

No.	NAME.		Rank.	Date of first Appointment.		Date of Appointment to present Position.		District or Section.
	In English.	In Chinese.						
27	Hsü Kuang-chui	許光追	Fourth, C	January 1879		November 1883		Amoy.
28	Wu Nu-tsai	吳奴仔	" "	March 1880		March 1880	"	
29	Wu A-chih	吳阿治	" "	August "		August "	"	
30	Liang A-cho	梁阿着	" "	June 1882		June 1882	"	
31	Li Ju	李如	" "	April 1881		July "	"	
32	Wu Ch'ang-chou	吳長洲	" "	December "		October "	"	
33	Hung A-pa	洪阿捌	" "	April 1883		April 1883	"	
34	Chou A-shan	周阿山	" "	" "		" "	"	
35	Chu A-hsing	朱阿興	" "	" "		" "	"	
36	Lu Tao-shun	盧道順	" "	December 1881		December 1881	"	
37	Hsü A-chiang	徐阿江	" "	April "		July 1882	"	
38	Lin Yu-lai	林有來	" "	May 1882		December "	"	
39	Lin Wei	林未	" "	February 1881		February 1881	"	
40	Chao Ch'un-piao	趙春標	" "	June 1882		June 1882	"	
41	Hsü A-t'ai	許阿泰	" "	March 1883		March 1883	"	
42	Kuo Chung	郭忠	" "	June 1882		July "	"	
43	Wu Pin	吳賓	" "	" 1883		November "	"	
44	Wu Ta-chén	吳大陣	" "	April 1882		April 1882	Takow.	
45	Li Tê *	李得	" "	November 1883		November 1883	"	
46	Ch'én Ch'ang-yung	陳昌榮	" "	April 1864		May 1880	Ningpo.	
47	Ku A-hsiao	顧阿小	" "	November 1873		" "	"	
48	Chang Chi-chung	張記忠	" "	September 1863		September 1863	Shanghai.	
49	Ting A-t'ang	丁阿堂	" "	August 1870		" 1879	"	
50	Yao Ting-kuei	姚定桂	" "	April 1880		" 1880	"	
51	Liu Hsien-kao	劉賢高	" "	October 1877		" 1879	"	
52	Ling Hsiao-fang	陵小方	" "	June 1869		June 1869	"	
53	Yang Shun-chung	楊順忠	" "	May 1873		May 1873	"	
54	Liu Hêng-ch'in	劉恒欽	" "	January 1875		November 1879	"	
55	Su A-pao	蘇阿寶	" "	December 1879		February 1882	"	
56	Shên Ta-shêng	沈大生	" "	July 1883		July 1883	"	
57	Liu Hsiao-fêng	劉小峯	" "	November 1879		October 1881	"	

* Employed temporarily.

APPENDIX II—*Continued.*

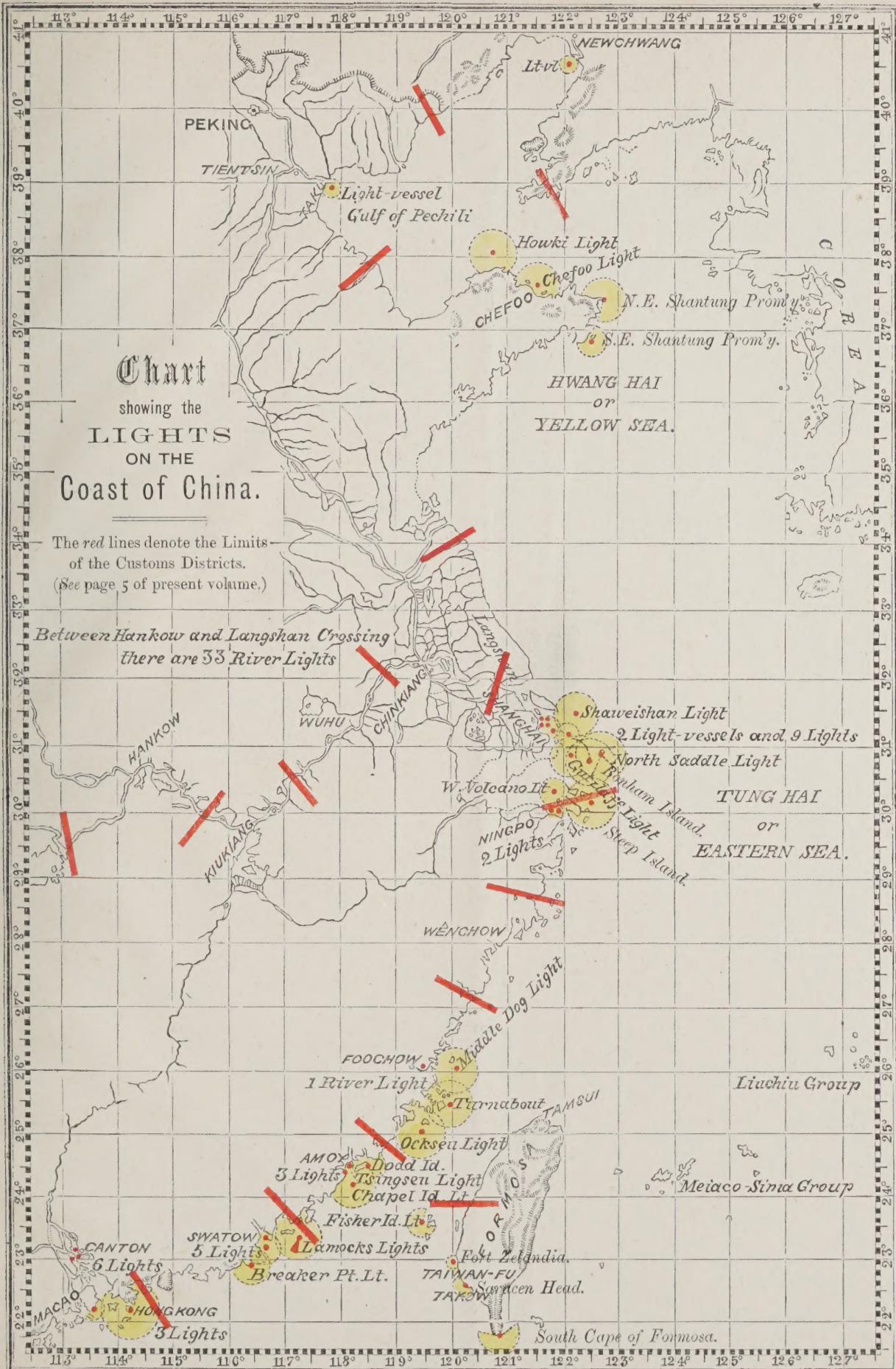
No.	NAME.		Rank.	Date of first Appointment.		Date of Appointment to present Position.		District or Section.
	In English.	In Chinese.						
58	Lin A-san.....	林阿三	Fourth, C	June 1883	June 1883			Shanghai.
59	P'an Lung-ch'üan	潘龍泉	„ „	April 1878	January „	„	„	
60	Fu Chih-shou	傅志壽	„ „	February 1877	April 1880		„	
61	Tung Chin-ts'ai	董金財	„ „	April 1883	„ 1883		„	
62	Lo Hsi-yüeh	羅西岳	„ „	July „	July „	„	„	
63	Hung Wan-i.....	洪萬億	„ „	February 1866	May 1876		Chinkiang.	
64	Chang Sung	張松	„ „	June 1876	June „	„	„	
65	Lu Hêng-i.....	陸恒義	„ „	December 1870	July 1878		„	
66	Hsü Hung.....	徐洪	„ „	July 1878	„ „	„	„	
67	Ts'ui Tê-jung.....	崔得榮	„ „	August 1867	August 1873		„	
68	Ts'ui Hêng-fa	崔恒發	„ „	November 1881	November 1881		„	
69	Shao Mei-ts'ai	邵美才	„ „	„ 1877	„ 1882		„	
70	Wang T'ien-ts'ai	王天才	„ „	February 1873	February 1873		„	
71	Wang Fu-ch'üan	王福泉	„ „	January 1880	June 1882		„	
72	Chu T'ing-jui.....	祝廷瑞	„ „	November 1881	November 1881		„	
73	Ts'ai Shih-piao.....	蔡世標	„ „	January 1868	October 1872		„	
74	Ts'ai Wên-ch'un.....	蔡文春	„ „	July 1881	July 1881		„	
75	Ch'én Yu-i.....	陳有義	„ „	April 1875	„ 1880		„	
76	Huang Shou-lan	黃壽蘭	„ „	July 1881	„ 1881		„	
77	Ts'ui Tê-fu.....	崔德福	„ „	April 1873	September 1883		„	
78	Wu Ch'ang-lin	吳長林	„ „	January 1881	January 1881		„	
79	Huang Tê-jung.....	黃德榮	„ „	March 1869	May 1877		„	
80	Ch'én Hsiao-yüan	陳學淵	„ „	„ 1882	March 1882		„	
81	Hsü Yung-shêng.....	徐永生	„ „	April 1881	November 1883		„	
82	Pu Liu-yüan.....	卜流源	„ „	July 1878	July 1878		„	
83	Chang Tê-yü.....	張得餘	„ „	June 1864	June 1864		„	
84	Pi K'ai-lan.....	畢開闌	„ „	„ „	„ „	„	„	
85	Ts'ai Tsêng-fa	蔡增發	„ „	December 1873	May 1876		Kiukiang.	
86	K'ang Chung-kuei	康忠貴	„ „	May 1876	October 1881		„	
87	Sun Wan-shun	孫萬順	„ „	September 1881	September „	„	„	
88	Ch'i Ch'un-jung	齊春榮	„ „	May 1872	April 1875		„	
89	Wang Wu-shang	王五尚	„ „	December 1879	December 1879		„	

APPENDIX II—*Continued.*

No.	NAME.		Rank.	Date of first Appointment.		Date of Appointment to present Position.		District or Section.
	In English.	In Chinese.						
90	Hsü Tê-pao	徐德保	Fourth, C	June 1870	January 1872			Kiukiang.
91	Chung Hsien-ts'ai.....	鍾賢才	" "	April 1873	November 1876	"		
92	Ch'êñ Ju-kuei	陳如貴	" "	July 1870	January 1872	"		
93	Kuei Ch'un-yin	桂春迎	" "	June 1876	June 1876	"		
94	Sang Tsê-yüan.....	桑澤元	" "	July	" October 1883	"		
95	Sun Chêng-huai	孫正槐	" "	April	"	" 1881	"	
96	Chang Shan-ming.....	張山明	" "	January 1883	January 1883	"		
97	Hsing Hou-hsiang	邢厚祥	" "	" 1877	October	"	"	
98	Chao Ta-hsiang.....	趙達祥	" "	August 1871	January 1872	"		
99	Chang Su-k'un.....	張述坤	" "	October 1872	April 1876	"		
100	Wan Ting-hsien	萬鼎先	" "	April	" January	1877	"	
101	K'ung Hsien-i.....	孔憲義	" "	January 1877	"	"	"	
102	Chao Ta-chiu	趙達九	" "	June 1870	November 1870	"		
103	T'ien Fang-chin	田方金	" "	July 1876	July 1876			Hankow.
104	Ch'êñ T'ai-ao	陳太鰲	" "	September 1877	September 1877	"		
105	Liu Chung-lin	劉忠林	" "	April 1862	February 1875	"		
106	Liu Hsio-ch'ing	劉學慶	" "	February 1879	" 1879	"		
107	Shih Hsing-wan	施興萬	" "	January 1869	" 1875	"		
108	Kao Hsing-ch'i	高興起	" "	December 1882	December 1882	"		
109	Liu Pi-ch'ang	劉必昌	" "	July 1869	February 1875	"		
110	Li Hsi-yian	李喜元	" "	" 1883	July 1883	"		
111	Chang Hsio-shih	張學詩	" "	April 1879	April 1879	"		
112	Liu Chêng-ch'ien	劉正乾	" "	"	"	"	"	
113	Li Tun-chien.....	李敦鑑	" "	January 1882	January 1882	"		
114	Kung Tso-ying	龔作英	" "	"	"	"	"	
115	Chang Lao-yao	張老幺	" "	December 1873	December 1873	"		
116	Wang Hsing-shan	王興山	" "	July 1883	July 1883	"		
117	Chang Nien-pao.....	張年寶	" "	October 1871	October 1871	"		
118	Kuan Hsing-an.....	管興安	" "	December 1882	December 1882	"		
119	Kuo Yu-kuei	郭友貴	" "	April 1872	April 1872	"		
120	T'ien Shih-hsi	田世喜	" "	July 1874	July 1874	"		
121	Jên Ch'üan-kuei.....	任全桂	" "	April 1866	November 1872	Chefoo.		

APPENDIX II—*Continued.*

No.	NAME.		Rank.	Date of first Appointment.	Date of Appointment to present Position.	District or Section.
	In English.	In Chinese.				
122	Ting Wén-yüan	丁文元	Fourth, C	May 1871	November 1872	Chefoo.
123	Chang Hung-chü.....	張洪舉	” ”	November 1866	” ”	”
124	Miao Wan-chang	苗萬章	” ”	April 1867	” ”	”
125	Chiang Wan-nien.....	江萬年	” ”	January 1877	April 1882	”
126	Ch'ü Shu-t'ien.....	曲書田	” ”	August 1882	December 1883	”
127	Ch'ü Hsiang-t'ien.....	曲香田	” ”	March 1879	August 1882	”
128	Chiang Wan-hsüan.....	江萬選	” ”	December 1883	December 1883	”
129	Wei Ch'un-wang	衛春旺	” ”	August 1880	” ”	”
130	Ch'ih Ch'ing-ling	遲慶令	” ”	” 1879	” ”	”



III.—MISCELLANEOUS SERIES.

No. 1.—THE TARIFF TABLES	Published 1868.
„ 2.—TEN YEARS' STATISTICS.....	„ 1873.
„ 3.—VIENNA EXHIBITION CATALOGUE	„ 1873.
„ 4.—PHILADELPHIA „ „	„ 1876.
„ 5.—PARIS „ „	„ 1878.
„ 6.—LIST OF CHINESE LIGHTHOUSES, etc. : Twelfth Issue (First Issue, 1872)	„ 1884.
„ 7.—LIST OF CHINESE LIGHTHOUSES, etc. : Chinese Version of the Twelfth Issue (First Issue, 1877).....	„ 1884.
„ 8.—GENERAL TARIFF LIST	„ 1879.
„ 9.—BERLIN FISHERY EXHIBITION CATALOGUE.....	„ 1880.
„ 10.—NAMES OF PLACES ON THE CHINA COAST AND THE YANGTZE RIVER : First Issue	„ 1882.
„ 11.—LONDON FISHERIES EXHIBITION CATALOGUE	„ 1883.
„ 12.—RULES REGARDING NOTARIAL ACTS TO BE PERFORMED BY COMMISSIONERS OF CUSTOMS, AND FORMS OF PROTEST : Second Issue (First Issue, 1882 : Circular No. 187).....	„ 1883.